Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_\_\_

HW 13: Midpoint PT II

**Geometry**

Complete the following problems in your graph paper notebook.

|  |  |
| --- | --- |
| Directions: Plot each of the coordinates below. Find the other endpoint of the line segment with the given endpoint and midpoint. | |
| 1. Endpoint (-8,-9), midpoint: (-4,-4) | 1. Endpoint: (3,-10), midpoint: (2,6) |
| 1. Endpoint: (1,8), midpoint: (-3,3) | 1. Endpoint: (-8,7), midpoint: (2,3) |
| 1. Point A is located at (3,0) and Point B is located at (7,4) Point X is located such that AX:XB is 3:4.  a. Is X closer in distance to point A or point B? *explain*  b. Find the coordinate of point X. | 1. Point M is located at (0,0) and point P is located at (-8,-4). Point C lies on segment MP such that MC is ¼ of the length of segment MP.  a. Is point C closer to point M or point P? b. Find the coordinates of point P. |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_\_\_

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